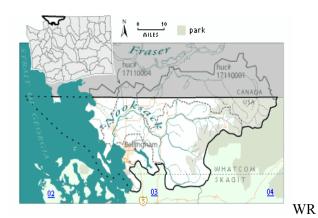
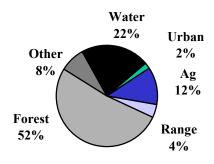
Nooksack Basin - WRIA #1



IA #1 encompasses about 1,039,283 acres, with more than 1,000 miles of rivers and streams. The eastern third is mountainous and heavily forested. The western portion is a broad floodplain.

Demographics

Land Use in Nooksack Basin



Land Base (in acres)

Federal	270,392	26%
State	102,758	9.9%
Local	302	.03%
Tribal	13,241	1.3%
Private	652,590	62.8%

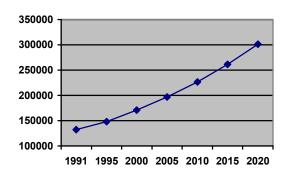
Principal economic activity (as total wages)

Agriculture/Forestry	4%
Manufacturing	15%
Retail Trade	22%
Services	25%
Government	15%

Population

There are approximately 148,300 people living in the Nooksack River Basin. The primary population centers are Bellingham, Lynden, and Ferndale. The majority of people live in unincorporated areas.

Projected population trends



Counties

Whatcom (94%) Skagit (6%)

Special purpose districts

Conservation Districts: Whatcom; Skagit

Shellfish Protection Districts: Portage Bay Drayton Harbor

	Principal Cities
Bellingham	Ferndale
Lynden	Blaine
Everson	Sumas

Reservation Lands

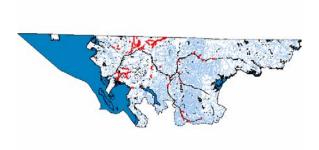
Lummi Tribe Nooksack Tribe

General Landscape

Part of the Fraser lowlands, this WRIA has undulating glacial drift plains, terraces, and floodplains with low gradient meandering rivers and streams. Surface material is deep to moderately deep silt to sandy loam. Potential natural vegetation is western hemlock, western red cedar, and some red alder. Mean temperature ranges from 33/44° (winter) to 50/73° (summer).

Surface Water Quality

303(d) Listed Waterbodies



1. 303(d) listed Problem Areas

Fecal Coliform in Anderson Ditch, Bellingham Bay, Bender Road Ditch, Benson Road Ditch, Bertrand Creek, Clearbrook Creek, Dakota Creek, Deer Creek, Depot Road Ditch, Double Ditch Drain, Drayton Harbor, Duffner Ditch, Fishtrap Creek, Johnson Creek, Kamm Slough, Lummi Bay and Hale Passage, Lummi River, Mormon Ditch, Nooksack River, Pangborn Creek, Silver Beach Creek, Silver Creek, Squaw Creek, Sumas Creek, Sumas River, Tennant Creek, Unnamed Creek, unnamed creek WDF 01.0146, unnamed creek WDF 01.0148, and Whatcom Creek

High Temperature in Anderson Creek, Boulder Creek, Canyon Creek, Cavanaugh Creek, Cornell Creek, Gallop Creek, Hoff Creek, Howard Creek, Nooksack River, Racehorse Creek, Roaring Creek, and Whatcom Creek

Dissolved Oxygen in Anderson Ditch, Bender Road Ditch, Benson Road Ditch, Bertrand Creek, Clearbrook Creek, Dakota Creek, Deer Creek, Depot Road Ditch, Duffner Ditch, Grays Harbor County Drainage Ditch NO.1, Johnson Creek, Kamm Slough, Mormon Ditch, Pangborn Creek, Silver Creek, Squaw Creek, Sumas Creek, Tennant Creek, Unnamed Creek, unnamed creek WDF 01.0146, and Lake Whatcom

pH in Bellingham Bay, Deer Creek, Kamm Slough, Mormon Ditch, Pangborn Creek, and Squaw Creek

Metals in Bellingham Bay and Straight of Georgia

Pesticides in Bellingham Bay and Straight of Georgia

Organics in Bellingham Bay and Straight of Georgia

Nutrients in Bertrand Creek and Deer Creek

Low Instream Flow in Bertrand Creek, Fishtrap Creek, and Nooksack River

PCBs in Bellingham Bay and Straight of Georgia

Sediment Bioassay in Bellingham Bay and Straight of Georgia

Fine sediments in Anderson Creek, Howard Creek, Nooksack River, and Racehorse Creek

Total Maximum Daily Loads10 TMDLs required from the 1998 303(d) list

2. Impacted Beneficial Uses

Groundwater Quality

Nitrates – Levels detected > 10mg/L Pesticides – Detected in public wells

Sole Source AquiferNone

Water Quantity

Over appropriated; high growth

Air Quality (From windblown dust) No concerns

Public Health Commercial Shellfish Growing Areas Areas threatened and impaired

Domestic Water Supply

Within this WRIA are large community water systems that significantly utilizes surface water sources

Salmonid Stock Status
Threatened

3. Water Quality Programs in WRIA #1

- 1. TMDL for Bellingham Bay
- 2. TMDL for Lake Whatcom
- 3. TMDL for Whatcom Creek
- 4. TMDL for Nooksack River
- 5. TMDL for Fishtrap Creek
- 6. TMDL for Johnson Creek
- 7. TMDL for Sumas River
- 8. US Forest Service Northwest Forest Plan
- 9. City of Blaine, Everson, Ferndale, Lynden, Nooksack, and Sumas Stormwater Plans
- 10. Silver Creek, Ten-mile Creek, Kamm Creek, and Drayton Harbor Watershed Plans
- 11. Lake Whatcom Restoration Plan
- 12. On-site Sewage System Program, Whatcom County Health
- 13. Whatcom County Shellfish Protection Implementation Program, Whatcom CD
- 14. Stream Team, Whatcom CD
- 15. Water Quality Education Program,
- 16. Small Farm Education Program, Whatcom CD
- 17. Dairy Nutrient Management Planning Program, Whatcom CD
- 18. Environmental Quality Incentive Program, Whatcom CD
- 19. Dairy Nutrient Cost Share Program, Whatcom
- 20. 6th Grade Conservation Program, NRCS
- 21. Chuckanut Bay On-Site/Shellfish Project, Whatcom County Health
- 22. Shoreline Inventory of Whatcom County, Whatcom County Marine Resources Committee
- 23. Rapid Shoreline Inventory Program, People for Puget Sound
- 24. NWSC Nearshore Habitat Inventory & Evaluation, Northwest Straits Commission
- 25. Fecal Coliform & Paralytic Shellfish Poisoning Monitoring (Puget Sound Ambient Monitoring Program – PSAMP), DOH
- 26. Salmon & Steelhead Inventory & Assessment Program, WDFW
- 27. Washington State ShoreZone Inventory, DNR/Coastal & Ocean Resources
- 28. Estuarine Health Indicator Project, PSWQAT
- 29. Biotoxins Monitoring Program, DOH
- 30. Commercial Shellfish Growing Area Classification Program, DOH
- 31. Recreational Shellfish Program, DOH